

**Claims**

1. Drink composition containing glucose, fructose, guarana and taurin, **characterized** in that it further contains bark extract or seed extract comprising  
5 flavonoids in physiologically active amounts.
2. Drink composition of Claim 1, **characterized** in that said bark extract comprises bark extract from a conifer, preferably pine bark extract.
- 10 3. Drink composition of Claim 2, **characterized** in that said pine bark extract comprises pycnogenols.
4. Drink composition of Claim 1, **characterized** in that said seed extract comprises grapeseed extract.
- 15 5. Drink composition according to any of the above Claims, **characterized** in that the ratio of fructose to glucose is about 2:1 – 6:1, preferably about 4:1.
6. Drink composition according to any of the above Claims, **characterized** in  
20 that it further comprises chromium, magnesium, potassium, or combinations thereof in physiologically active amounts.
7. Drink composition according to any of the above Claims, **characterized** in  
25 that it further comprises green tea extract in a physiologically active amount.
8. Drink composition according to any of the above Claims, **characterized** in  
that it further comprises L-carnitine in a physiologically active amount.
9. Drink composition according to any of the above Claims, **characterized** in  
30 that it at least substantially contains the following substances in indicated amounts:

<b>Substance</b>	<b>Percentages (by weight) in the drink</b>
fructose	0,5 – 20
glucose	0,125 – 5
35 guarana extract	0,02 – 0,7
taurin	0,02 – 0,5
Pycnogenol®	0,001 – 0,1

10. Drink composition according to any of the above Claims, **characterized** in that it further contains about 0,001 – 0,1 % by weight of green tea extract.
11. Drink composition according to any of the above Claims, **characterized** in that it further contains about 0,02 – 0,2 % by weight of magnesium, or 0,01 – 0,5 % by weight of potassium, or both.
12. Drink composition according to any of the above Claims, **characterized** in that it further contains about 0,02 – 0,5 % by weight of L-carnitine.
13. Drink composition according to any of the above Claims, **characterized** in that it further contains physiologically active amounts of one or more of the following substances or substance groups: carbohydrates, salts, caffeine, flavonoids, isoflavonoids, such as phormononetin; lignans, betain, methylsulphonyl methane (MSM); minerals and trace elements; proteins, peptides including carnosine; amino acids including tryptophan; mucopolysaccharides including chondroitin sulphate; glycosamino glycans, curcuma, alpha-lipoic acid, antibodies, colostrum preparations, probiotics, prebiotics; herbs or ingredients therefrom, including *Ginkgo biloba*, *Passiflora incarnata*, *Carduus marianum*, hop, oat seedlings, and lemon balm; essential oils including anise, nutmeg and cinnamon; adaptogenic plant extracts including *Rhodiola rosea*, ginseng, *Acanthopanax senticosus*, and *Leuzea carthamoides*; vitamins including vitamin C and vitamins of the B-group, lipophilic vitamins, ubiquinone and inositol; choline, carotenoids, garlic preparation, secoiridoid, soluble fiber, fatty acid, conjugated linoleic acid, phospholipid.
14. Drink composition according to any of the above Claims, **characterized** in that it is in the form of a dry substance miscible with liquids, such as a powder, granule or effervescent tablet.
15. Drink composition according to any of the above Claims, **characterized** in that the liquid base of the drink is a liquid of plant origin, preferably rich in antioxidants and/or flavonoids, such as a lingonberry, apple, aronia, sallow thorn, or cranberry based liquid.
16. Method for composing a drink composition containing active agents to be used during long-lasting activities requiring intensive concentration for maintaining and improving performance, **characterized** in that the active agents are selected on the basis of the characteristics of the target group, individual user and/or conditions

of use, said active agents having at least partly complementing actions with a net effect favourable for the user.

5 17. Method of Claim 16, **characterized** in that said characteristics of the target group, or individual user comprise one or more of the following features: age, sex, general health, genetic properties.

10 18. Method of Claim 16, **characterized** in that said active agents have an effect on the blood sugar balance of the user, or user group.

19. Method of Claim 16, **characterized** in that said net effect of the active agents is attained by combining caffeine and guarana, taurin, as well as fructose and glucose in a ratio of about 2:1 – 6:1, preferably about 4:1.

15 20. Method of Claim 16, **characterized** in that said active agents have an effect on the functioning of the muscular or nervous system of the user, or user group.

20 21. Method of Claim 20, **characterized** in that said net effect of the active agents is attained by combining a bark extract containing flavonoids with magnesium, or potassium, or both.

22. Method of Claim 21, **characterized** in that said net effect of the active agents is attained by further using L-carnitine.

25 23. Method of Claim 16, **characterized** in that at least information about the target group, individual user, or conditions of use is entered to an automatic nutrition device, an optimal nutrient and/or drug dose, the ingredients. i.e. active agents contained therein, and the amounts of said ingredients and proportions thereof are at least partly determined for the consumer of the dose by a data base arrangement, and the active agents determined by said automatic nutrition device  
30 are dispensed.

24. Method of Claim 23, **characterized** in that said data base arrangement comprises at least part of the information selected from the group consisting of:

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- at least one probability weight coefficient for the fact that at least one gene acts on at least one health characteristics with a certain probability,

- at least one probability weight coefficient for the fact that at least one active agent acts therapeutically or deleteriously on at least one health characteristics with a certain probability,
  - 5 - at least one probability weight coefficient for the fact that at least one gene together with at least one active agent acts therapeutically or deleteriously on at least one health characteristics with a certain probability,
  - at least one probability weight coefficient for the fact that the user has allergy  
10 against at least one active agent with a certain probability, and/or
  - optimal proportions for at least two active agents.
25. Method of Claim 23, **characterized** in that at least one operation is carried out  
15 by means of said data base arrangement, said operation being selected from the group consisting of:
- comparison of at least one gene from the gene map of the user to the gene maps  
20 of the data base arrangement, and selection of a probability weight coefficient between said gene present in the gene map of the user and in the data base arrangement, and at least one health characteristics, on which said gene acts,
  - selection of a probability weight coefficient between said health characteristics,  
25 and at least on active agent acting on said health characteristics either therapeutically or detrimentally with a certain probability,
  - provision of information reflecting the suitability of the active agent for the consumer of the dose by means of said probability weight coefficients, and/or
  - 30 - arranging of the active agents acting on said health characteristics either therapeutically or detrimentally with a certain probability, wherein probabilities associated with said active agents are utilized to provide information reflecting the suitability of the active agent for the consumer of the dose, in such an order that the active agent acting therapeutically with the highest probability on said  
35 health characteristics is set as the most important one, and providing the automatic nutrition device with the data about said active agent.